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Received December 5, 1765.

V. *Observation of the Eclipse of the Sun, of August 16, 1765, made at Leyden, by Professor Lulofs, F. R. S. to Charles Morton, M. D. Sec. R. S.*

Carolo Morton, M. D. Soc. Reg. Lond. Secretario, & Academiæ Imperial. Leopoldin. & St. Petropolit. Socio. Joannes Lulofs, Academ. Leidenf. Matheseos Professor. Societ. Reg. Lond. Socius, &c. S. P. D.

Read Feb. 13, 1765. **A** Bbas de la Caille (*Ephemerides des Mouvements Celestes pour l'année 1765*) initium deliquii pro urbe Amstelædamensi determinaverat 5^h 4' post merid. finem 5^h 24, quantitatem 0 dig. 5'. Cum de la Caille conspirabat peritissimus de la Lande, maximamque eclipsæ phasim locum habituram prædixerat in eadem urbe 5^h 15'.

Hiscæ determinationibus plus fidens, quam rudioribus, quas ipse tantum feceram, ut typum deliquii in usum observatorii nostri parare mihi liceret, (secundum quas initium esset Leydæ 4^h 10', finis 5^h 10', quantitas 1^d 22') aliisque insuper negotiis distractus, observatorium conscendi hora 4, sed, disposito telescopio Newtoniano septem pedum, eidemque adplicato micrometro Bradleyano, admirabundus percepi, hora 4 29' 1'' eo-usque jam proventam fuisse
Lunam,

Lunam, ut distantia cornuum deliquii 19' 36'' adaequaret; unde quantitas obscurationis jam erat 2 dig. & 38'; ab eo tempore non admodum increvit eclipsis, ita ut non ultra 2 dig. & 40' vel 42' adscenderit. Hora autem 4 44' 48'' distantiam cornuum denuo deprehendi 19' 36'', adeoque medium deliquii non longe abfuit ab hora 4 36' 55''.

Reliquæ observationes circa distantiam cornuum, & magnitudinum obscurationis exinde erutarum determinationes, sunt sequentes.

Temp. vet.	distantia cornuum	Magnitudo.
		dig.
4 ^h 51' 45''	18 51	2 24
55 55	18 6	2 11 $\frac{1}{2}$
59 19	17 21	2 1
5 3 51	15 50	1 38
7 9	14 20	1 20
12 42	11 18	0 48
17 21	6 2	0 13 $\frac{1}{2}$
18 58 Finis		

Datum Lugd. Batav. d. 5 Novemb. 1765.